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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	-
10/667,896	09/23/2003	Charles E. Rodgers	OPTM001/00US	8198	
22903 7	590 \( -08/24/2005	EXAM	EXAMINER		
COOLEY GO	DWARD LLP	CROSLAND, DONNIE L			
ATTN: PATEN	NT GROUP				
11951 FREEDOM DRIVE, SUITE 1700			ART UNIT	PAPER NUMBER	
ONE FREEDOM SQUARE- RESTON TOWN CENTER			2636		
RESTON, VA	20190-5061				

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Summan	10/667,896	RODGERS ET AL.				
Office Action Summary	Examiner	Art Unit				
	DONNIE L. CROSLAND	2636				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status .						
1) Responsive to communication(s) filed on	<u>.</u>					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowar	) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-62 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-62 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine 10)☐ The drawing(s) filed on 23 September 2003 is/a  Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examine 11.	re: a)⊠ accepted or b)⊡ objecd drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received i (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3-15-04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) tte atent Application (PTO-152)				

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

Claims 40-47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 40 is incomplete in failing to reci9te where the receiver is receiving signals from; the claim fails to recite structure for the "geopositional information"; there is no structural connection for the "transmitter".

In claim 42, "the heading" and "the determined information" have no antecedent basis.

In claim 43, "the speed" has no antecedent basis.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 48 and 60 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Kubota et al, cited by applicants.

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Claims 1-3, 5-13, 20, 22, 24-36, 39-60 and 62 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by either Revell et al or Shirkey et al.

Revell shows the apparatus mobile unit in figure 4 and additional mobile unit 62 in figure 1, software 604 for predicting and map in figure 8 for defining warning zones. Error correction 203 is shown in figure 2, as well as DGPS receiver, cols. 4, 6, and 7.

Shirkey shows the apparatus with the transmitting of the activation signal in transceiver 24 (mobile) and the reception of the transmitted signals in the GPS receiver 58 in figure 2 that includes mapping software to avoid collision, see col. 3.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 4, 14-19, 21, 23, 37, 38, and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Revell et al or Shirkey et al

With respect to claim 4, the plurality of zones is within the capabilities of the skilled artisan and would find it a matter of routine to employ duplicate zones.

With respect to claims 14-19, 23, note the warning zone with respect to a predetermined range, which is a function of the vehicle's speed, col. 2, lines 6-25, and col. 3 of Shirkey.

With respect to claims 21, 37, frequency decoding for distinguishing among multiple transmitted signals are within the capabilities of the skilled artisan and such would have been obvious to the skilled artisan.

With respect to claim 38, the highest priority would be with respect to the received signals due to range and signal strength in either reference.

Claim 61 only involves duplication of the mobile devices and such would not involve patentable invention.

#### Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Luccketti is cited as of interest in showing related collision avoidance systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONNIE L. CROSLAND whose telephone number is 571-272-2980. The examiner can normally be reached on Mon-Fri, 9:30a-6:00p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFERY HOFSASS can be reached on 571-272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 2636

Dlc .8-16-05